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20	A.		5,431,626		-02-2002	Allen et al.		166	80.1			
20	A:		3,412,554		-26-2002	Pietras		81	57.34	_		
20	A		6,360,633		-26-2002	Adams et al.		166	77.53			
10	Α		6,349,764		-06-2001	Scott et al.		175	162			
80	A	.5	6,311,792	1)-30-2001	Bouligny		294	86.25			
80	P	16	6,309,002		3-13-2001	Downie et al		175	55			
20	1	17	6,199,641	1	6-06-2000	Dlask et al.		81	57.33			
80		48	6,070,500			Abrahamser	n et	166	380			
527		A9	6,056,060	0	05-02-2000	al.						
W			2 222 472	-	2-14-1999	Albright et a	al.	166	380			
20		410	6,000,472		10-26-1999	Mullins		166	387			
2		A11	5,971,079	1	06-08-1999		al.	166	77.1			
20		A12	5,909,768	L_	11-17-1998			166	321			
Sc.	<u> </u>	A13	5,836,395								Transla	tion
Foreign	Pat	ent C	ocuments	$\neg \top$	Date	Country		Class	Subcl		YES	NO
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Initial				<u>_</u>	06-27-200	1 U.K.		E21B	19/0			
SI	<u>ر</u>	B1			07-06-200			E21B			<u> </u>	
ÉO		B			07-06-200			E21B	19/1	16		
81	2	B	WO 00/39429									
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*Examir Initial	er		Including Auti			Inc., "Autoseal	Cir	culating He	ead," Eng	ineerin	g Manufac	turing
C		10	1 LaFleur Petro	oleum	n Services,	Inc., Autosea	. 🕠				· · · · · · · · ·	log 80
	$\mathcal{O}_{\underline{}}$		1992, 11 Pag	jes	Equipment	Safety System	ns, V	V-K-M Divi	sion, ACF	Indus	itries, Cala	iog oo
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Sheet 2 of 6 sheet(s) U.S. Department of Commerce, Palent and Trademark Office Docker No. Serial No. (PTO Fpm 1449 modified) MRKS/0029 09/762,699 NFORMATION DISCLOSURE STATEMENT BY APPLICANT Confirmation No.: Applicant FEB 1 0 2003 Bernd-Georg Pietras 8491 (ase several sheets if necessary) Filing Date Group MADEN May 10, 2001 3672 Examiner Essama Omoba **U.S. Patent Documents** Document Applicant(s) Subclass Filing Date If *Examiner Issue Class Initial Number Name Appropriate Date Mackintosh 175 170 A14 5,803,191 09-08-1998 Castille et al. 77.1 A15 5.791.410 08-11-1998 166 285 04-07-1998 Hawkins, III 166 A16 5,735,348 07-08-1997 Trevisani 175 171 A17 5,645,131 Coone 166 387 A18 5,584,343 12-17-1996 175 321 A19 5,577,566 11-26-1996 Albright et al. A20 5,553,672 09-10-1996 Smith, Jr. et al. 166 382 A21 04-02-1996 Clanton 175 52 5.503,234 162 A22 Stogner et al. 175 5,351,767 10-04-1994 294 102.2 A23 03-29-1994 Willis et al. 5,297,833 175 203 **A24** 10-26-1993 Stogner 5,255,751 379 A25 Stokley 166 03-09-1993 5,191,939 162 Willis 175 A26 08-06-1991 5,036,927 **Foreign Patent Documents** Translation Class Subclass **Document** Date Country *Examiner Initial Number NO YES \boxtimes **WIPO E21B** 19/16 **B4** WO 00/11311 03-02-2000 X **WIPO E21B** 19/16 **B5** WO 00/11310 03-02-2000 **WIPO E21B** 19/16 WO 00/11309 03-02-2000 **B6** OTHER ART Including Author, Title, Date, Pertinent Pages, Etc. *Examiner Initial "Canrig Top Drive Drilling Systems," Harts Petroleum Engineer International, February 1997, C3 2 Pages "The Original Portable Top Drive Drilling System," TESCO Drilling Technology, 1997 C4 Killalea, Mike, "Portable Top Drives: What's Driving The Market?" IADC, Drilling Contractor, C5 September, 1994, 4 Pages **Date Considered** Examiner *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

A27 5,009,265 04-23-1991 Bailey et al. 166 118					: 			neet 3 of 6 s	neet(s)	
Confirmation No: Bernd-Georg Pietras B				Dock) .	Serial No.				
Bernd-Georg Pietras	(PTOPorm	14 4 9 n	nodified)	MRKS/002	29	09/762,699				
Berni-Georg Pietras Bay	WFORMAT	ION-DI	SCLOSURE STAT	Applicant		Confirmatio	n No.:			
Examiner Esama Omgba	THE TO	7000 E		Bernd-Ge	org Pietras	8491				
U.S. Patent Documents Examiner Document Document Date Applicant(s) Name Class Subclass Filing Date If Appropriate EXO A27 5,009,265 04-23-1991 Bailey et al. 166 118 EXO A28 4,997,042 03-05-1991 Jordan et al. 166 379 RECEIVEL EXO A28 4,867,236 09-19-1999 Haney et al. 166 77.5 FEB 1 4 2003 EXO A30 4,836,064 06-06-1999 Slator 81 57.18 EXO A31 4,800,968 01-31-1989 Shaw et al. 175 85 EXOUP 36((Use semens	*Sheet	ts if necessary)	Filing Date	Э	Group				
Document Number	Examiner Essama Omgba						May 10, 2001			
Initial	U.S. Patent	Docu	ments							
A28	*Examiner Initial					Class	Subclass	_		
A28	<i>E</i> 0	A27	5,009,265	04-23-1991	Bailey et al.	166	118			
A30		A28	4,997,042	03-05-1991	Jordan et al.	166	379	RECEI	VEC	
A30	20	A29	4,867,236	09-19-1989	Haney et al.	166	77.5	FFR 1 4	2003	
A32	ED	A30	4,836,064	06-06-1989	Slator	81	57.18			
A33	80	A31	4,800,968	01-31-1989	Shaw et al.	175	85	ROUP	360	
A34	20	A32	4,791,997	12-20-1988	Krasnov	175	57			
A35 4,762,187	50	A33	4,773,689	09-27-1988	Wolters	294	88			
A36 4,759,239	50	A34	4,765,401	08-23-1988	Boyadjieff	166	77.53			
A37 4,709,599	درع	A35	4,762,187	08-09-1988	Haney	175	171			
A38	20	A36	4,759,239	07-26-1988	Hamilton et al.	81	57.34			
A38	20	A37	4,709,599	12-01-1987	Buck	81	57.18			
Poreign Patent Documents	_	A38	4,683,962	08-04-1987	True	173	163			
Page	80	A39	4,676,312	06-30-1987	Mosing et al.	166	77			
Number Number YES NO	Foreign Pa	tent De	ocuments	<u> </u>			•	•		
B7 WO 00/05483 03-02-2000 WIPO E21B 19/16 B8 WO 98/11322 03-19-1998 WIPO E21B 19/16 B9 WO 98/05844 02-12-1998 WIPO E21B 19/16 COTHER ART *Examiner Initial Including Author, Title, Date, Pertinent Pages, Etc. C6 "500 or 650 ECIS Top Drive," Advanced permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages C7 "500 or 650 HCIS Top Drive," Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages C8 "Product Information (Sections 1-10), "CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner Date Considered 3/10/2003	*Examiner		I	Date	Country	Class	Subclass	Translation		
B8 WO 98/11322 03-19-1998 WIPO E21B 19/16 B9 WO 98/05844 02-12-1998 WIPO E21B 19/16 OTHER ART *Examiner Initial C6 "500 or 650 ECIS Top Drive," Advanced permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages C7 "500 or 650 HCIS Top Drive," Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages C8 "Product Information (Sections 1-10), "CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner SMAMA Date Considered 3/10/2003	Initial							YES	NO	
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*Examiner Initial Including Author, Title, Date, Pertinent Pages, Etc. *Examiner Initial Including Author, Title, Date, Pertinent Pages, Etc. *C6 "500 or 650 ECIS Top Drive," Advanced permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages *C7 "500 or 650 HCIS Top Drive," Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages *C8 "Product Information (Sections 1-10), "CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner **Sexaminer Sexaminer Sexam	80	B8	WO 98/11322	03-19-1998	WIPO	E21B	19/16		\boxtimes	
Including Author, Title, Date, Pertinent Pages, Etc. C6 "500 or 650 ECIS Top Drive," Advanced permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages C7 "500 or 650 HCIS Top Drive," Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages C8 "Product Information (Sections 1-10), "CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner Date Considered 3/10/2003	80	В9	WO 98/05844	02-12-1998	WIPO	E21B	19/16		\boxtimes	
C6 "500 or 650 ECIS Top Drive," Advanced permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages C7 "500 or 650 HCIS Top Drive," Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages C8 "Product Information (Sections 1-10), "CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner Date Considered 3/10/2003	OTHER AR	Т								
Drilling Technology, April 1998, 2 Pages C7 "500 or 650 HCIS Top Drive," Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages C8 "Product Information (Sections 1-10), " CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner Date Considered 3/10/2003	*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.							
TESCO Drilling Technology, April 1998, 2 Pages 20 C8 "Product Information (Sections 1-10), " CANRIG Drilling Technology, Ltd. September 18, 1996 Examiner Date Considered 3/10/2003	20	C6								
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Sheet 4 of 6 sheet(s) U.S. Department of Commerce, Patent and Trademark Office Docket No. Serial No. PTOForma 449 modified) MRKS/0029 09/762,699 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Confirmation No.: Applicant FEB 1 0 2003 Bernd-Georg Pietras 8491 Serenyetal sheets if necessary) Filing Date Group Examiner Essama Omgba May 10, 2001 3672 **U.S. Patent Documents** *Examiner Document Issue Applicant(s) Class Subclass Filing Date If Number Name Initial Date Appropriate 03-17-1987 **Buck** 81 57.19 A40 4,649,777 Boyadjieff A41 4,605,077 08-12-1986 175 85 478 A42 4,604,724 08-05-1986 Shaginian et al. 364 A43 4,593,773 06-10-1986 Skeie 175 85 **A44** 166 77.5 4,570,706 02-18-1986 **Pugnet** A45 Boyadjieff et al. 173 164 4.529,045 07-16-1985 **A46** 01-22-1985 **Bates** 81 57.18 4,494,424 **A47** 4,437,363 03-20-1984 Haynes 81 57.18 **A48** 03-23-1982 Abbott et al. 294 96 4,320,915 A49 166 315 4,100,968 07-18-1978 Delano A50 11-19-1974 West 175 195 3,848,684 173 163 A51 3,776,320 12-04-1973 Brown A52 3,747,675 07-24-1973 Brown 166 237 **Foreign Patent Documents** Country Translation *Examiner Document Date Class Subclass Initial Number YES NO **WIPO** X E21B 19/06 **B10** WO 96/18799 06-20-1996 \boxtimes **B11** 0 589 823 A1 03-03-1994 EP **E21B** 19/06 M **B12** WO 93/07358 04-15-1993 **WIPO** E21B 37/00 **OTHER ART** *Examiner Including Author, Title, Date, Pertinent Pages, Etc. Initial C9 C10

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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Sheet 5 of 6 sheet(s) U.S. Department of Commerce, Patent and Trademark Office Docket No. Serial No. (P10 Form 449 modified) MRKS/0029 09/762,699 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Confirmation No.: **Applicant** FEB 1 0 2003 Bernd-Georg Pietras 8491 (Verseyeral sheets if necessary) Group Filing Date Examiner Essama Omgba May 10, 2001 3672 **U.S. Patent Documents** Class *Examiner Document Issue Applicant(s) Subclass Filing Date If Initial Number Date Name Appropriate 73 136 **A53** 3,691,825 09-19-1972 Dyer A54 3,635,105 01-18-1972 Dickmann et a. 81 57.18 **A55** 3,570,598 03-16-1971 Johnson 166 178 04-30-1968 14 **A56 Timmons** 166 3,380,528 **A57** 2.5 3,193,116 Kenneday et al. 214 07-06-1965 53 81 **A58** 3,041,901 07-03-1962 **Knights** A59 Littell 1,917,135 07-04-1933 Allen et al. 166 377 09-26-2002 A60 2002/0134555A1 379 2001/0042625A1 11-22-2001 **Appleton** 166 A61 A62 A63 A64 A65 **Foreign Patent Documents** *Examiner Document Date Country Class Subclass Translation Number Initial YES NO X **B13** GB 2 275 486A 04-15-1993 U.K. E21B 37/00 0 525 247 A1 **B14** 02-03-1993 EP E21B 3/02 \boxtimes GB 2 224 481A 09-05-1990 U.K. **B66C** 1/56 冈 **B15 OTHER ART** Including Author, Title, Date, Pertinent Pages, Etc. *Examiner Initial C12 C13 C14 Examiner **Date Considered** *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through

citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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	A66							-
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	A69							
	A70					GHC	UP 36	UU
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	A72							
	A73							
	A74							
	A75							
	A76							
Foreign Pa	tent Do	ocuments						
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50	B16	0 285 386 A2	10-05-1988	EP	E21B	19/16		
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	B18							
	B19							
	B20							
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